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(74) Agents; OLIVE, Mark, R. et al.; Davies Collison Cave, 1 Little

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(71) Applicants (for all designated States except US): PFIZER PRODUCTS INC [US/US]; Eastern Point Road, Groton, CT 06340 (US). AGRICULTURE VICTORIA SERVICES PTY LTD [AU/AU]; 475 Mickleham Road, Attwood, VIC 3049 (AU). PIG RESEARCH AND DEVELOPMENT CORPO-RATION [AU/AU]; 3rd Floor, Industry House, 10 National Circuit, Barton, ACT 2600 (AU).

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(72) Inventors; and

(75) Inventors/Applicants (for US only): PANACCIO, Michael [AII/AII]: 112 Hill Road, North Balwyn, VIC 3104 (AU). ROSEY, Everett, Lee [US/US]; 457 Route 164, Preston, CT 06365 (US). SINISTAJ, Men [AU/AU]; 3/60 Gourlay Street, East St. Kilda, VIC 3183 (AU). HASSE, Detlef [AU/AU]; 4 Scullin Court, Sunbury, VIC 3429 (AU). PARSONS, Jim [AU/AU]; 11 Kanandah Court, Research, VIC 3095 (AU). ANKENBAUER, Robert, Gerard [US/US]; 104 Castle Hill Road, Pawcatuck, CT 06379 (US).

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(54) Title: LAWSONIA DERIVED GENE AND RELATED FIGE POLYPEPTIDES, PEPTIDES AND PROTEINS AND THEIR USES

(57) Abstract

The present invention relates generally to therapeutic compositions for the treatment and/or prophylaxis of intestinal disease conditions in animals and birds caused or exacerbated by Lawsonia intracellularis or similar or otherwise related microorganism. In particular, the present invention provides a novel gene derived from Lawsonia intracellularis which encodes an immunogenic FIgE peptide, polypeptide or protein that is particularly useful as an antigen in vaccine preparation for conferring humoral immunity against Lawsonia intracellularis and related pathogens in animal hosts. The present invention is also directed to methods for the treatment and/or prophylaxis of such intestinal disease conditions and to diagnostic agents and procedures for detecting Lawsonia intracellularis or similar or otherwise related microorganisms.